



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

**Richard E. Dunn, Director**

### Air Protection Branch

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### **MEMORANDUM:**

TO: Stephen Damaske  
THROUGH: Daniel McCain  
FROM: Ray Shen  
SUBJECT: SOURCE TEST REPORT REVIEW

The following test has been reviewed and was conducted in an acceptable fashion for the purpose intended.

COMPANY NAME	BD (Becton, Dickinson and Company)
COMPANY LOCATION	Covington, GA
SOURCE TESTED	Dry Bed System 1 (SYS1)
POLLUTANT DETERMINED	Ethylene Oxide
REPORT REVIEWED BY	Ray Shen
TEST WITNESSED BY	Ray Shen, Marcus Cureton
DATE(S) OF TEST	June 19, 2020
DATE RECEIVED BY APB	September 1, 2020
APPLICABLE REGULATION	EPD Consent Order dated October 28, 2019

### MEMORANDUM

This is a retest of a new Dry Bed Systems intended to control ethylene oxide (EtO) fugitive emissions. System 1 (SYS1) captures emission from the five Sterilization Vessel Rooms (VRM1 thru VRM5), the vessel to aeration Transfer Corridor (NC01) and the EtO Dispensing Room (DRM1).

Samples were collected into Summa Canisters in accordance with EPA Method TO-15 (GC/MS in Selective Ion Monitoring (SIM) Mode). Sample duration was (4) hours. A sample was collected at Inlet Duct and Outlet Duct simultaneously of SYS1 Dry Bed System.

#### Ethylene Oxide (EtO)

	Concentration (micrograms/m <sup>3</sup> )	Flow (dscfm)	Mass rate (lb./hr.)
Inlet	250	19,537	0.0183
Outlet	3.3	20,830	0.000247

Note: The listed EO concentration (3.3 µg/m<sup>3</sup>) is the average of SYS1 - STACK 20200619 (3.6 µg/m<sup>3</sup>) and SYS1 - STACK DUP 20200619 (2.9 µg/m<sup>3</sup>),

DRE of Dry Bed System (SYS1) is 99%.